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[Hi/Low Beams at the Same Time](#)

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Page 1 of 3 1 2 3 > ▼

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06-04-2002, 09:56 PM

#1

[wolfman](#)

Super Member



Join Date: Jun 2002

Location: Texas

Posts: 12,066

[wolfman's Photos](#)

Hi/Low Beams at the Same Time

Believe I have found a RELIABLE non-permanent way to run hi and lo headlights at the same time on both gen 1 and gen 2 s-series cars. Mod will not require the cutting or splicing of ANY wires and will be 100 % reverseable. It will also work on gen 2 cars WITHOUT disabling the DRL's nor will DRL's interfere with it's function. Best part is it will be VERY inexpensive. Anyone interested?

...

Old Saturns never die, people KILL them, so check your damn oil!
"Unthinking respect for authority is the greatest enemy of truth." Albert Einstein

REWARD EXCELLENCE!



Rate the quality of this post and help *wolfman* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

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06-05-2002, 01:06 AM

#2

[L300Boy](#)

Master Member



Join Date: Jul 2001

Location: Puyallup, WA

Posts: 4,249

[L300Boy's Photos](#)



Got a good idea.... pull the hi beam lever back just before it clicks. It lights up both high and low beams. If you are looking for a no wire cutting solution, just use a rubber band or duct tape.

REWARD EXCELLENCE!



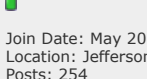
Rate the quality of this post and help *L300Boy* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

06-05-2002, 08:25 AM

#3

[WOOWOO](#)

Member



Join Date: May 2002

Location: Jeffersonville In.

Posts: 254



Jumper the hot side of the fuses together?

REWARD EXCELLENCE!



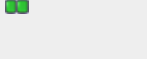
Rate the quality of this post and help *woowoo* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

06-05-2002, 09:52 AM

#4

[eRic 02sc2](#)

Super Member



um... won't that blind oncoming traffic and kill the battery at the same time?

...



Join Date: Feb 2000
Location: Closed Course.
Professional Driver.
Posts: 14,543

[eRic 02sc2's Photos](#)



eRic 02sc2
DR SCCA Solo 2001,2002 1st DSP
WHRRi 2007,2010 Fun Run 1st
DR SCCA 2008 Triathlon 1st PF
DR SCCA Solo 2009 2nd ST
DR SCCA Solo 2010 1st ST
Crutchfield: pkeqe-6j8e3-d2qqe

REWARD EXCELLENCE!

Rate the quality of this post and help *eRic 02sc2* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

06-05-2002, 12:50 PM

#5

L300Boy

Master Member



Join Date: Jul 2001
Location: Puyallup, WA
Posts: 4,249

[L300Boy's Photos](#)



Nah, it would actually waste 0.001 mpg more gas.

REWARD EXCELLENCE!

Rate the quality of this post and help *L300Boy* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

06-05-2002, 01:24 PM

#6

Qlara

Master Member



Join Date: Oct 2000
Location: Earth
Posts: 5,905

[Qlara's Photos](#)



Unless you're driving in Street-lights-less forrest roads, what's the motive to run both Hi/Lo beam at the same time other than annoying oncoming traffic or get pulled over by the polices?

Gas wasted maybe neglegible, just that your Alternator and battery will die sooner rather than later. On avg the Hi-beam bulbs are drawing 110W extra.

REWARD EXCELLENCE!

Rate the quality of this post and help *Qlara* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

06-05-2002, 03:15 PM

#7

toeachitsown

Member



Join Date: May 2002
Location: dirty south
Posts: 190

[toeachitsown's Photos](#)



I300 is right...all u gotta do is hold it back

REWARD EXCELLENCE!

Rate the quality of this post and help *toeachitsown* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

06-05-2002, 04:11 PM

#8

wolfman

Super Member



Join Date: Jun 2002
Location: Texas
Posts: 12,066

[wolfman's Photos](#)

**stating the OBVIOUS**

- 1.OBVIOUSLY you would only want all 4 lights (hi/lo) on when running in hi beam mode (DUH!)
2. Most cars in earlier years with 4 headlight system worked this way.
3. Yes it GREATLY improves visability when driving on dark unlit roads. (I live in Maine...thier damn near ALL like that)
4. From the front (IMHO) the car looks better when all the light s are on.
5. When your alternator is charging, current load increases GENERALLY do not effect longevity. Alternator output is measured in AMPS not WATTS. An additional 100 WATT load probably would NOT make a huge difference in alternator AMP output. (That amplifier you have on yur stereo draws WAY more power than ANY headlight ever would)
6. This mod WILL NOT effect battery life what-so-ever. (unless you regularly leave your lights on without the engine off)
7. Yes I am fully aware of the "hold the dimmer switch" trick but after 10 miles or so on a bumpy road it gets to be a pain.
8. No it WON'T get you pulled over by the police or "blind" other drivers (unless you fail to dim) as it is a common standard feature on older cars esp. those made in the 70's and early 80's.

I was not proposing to "sell" anyone anything. I have installed and field tested this mod on 2 Saturns (92' and 97') both with and without DRL's and it works perfectly. Install cost was less than \$20.00 and took about 1/2 hour (to do it right). Best part is if the Mod should ever fail while in use, the headlights go back to normal factory operation without ANY intradiction by the operator.

...

Old Saturns never die, people KILL them, so check your damn oil!
"Unthinking respect for authority is the greatest enemy of truth." Albert Einstein

	REWARD EXCELLENCE!  Rate the quality of this post and help <i>wolfman</i> reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!
06-05-2002, 04:30 PM #9	
Tycho Senior Member  Join Date: Jun 2001 Location: Fairbanks, Alaska Posts: 1,219 Tycho's Photos 	 So what is the mod then? c'mon...why not just post it and be like here you go... Oh...HIs and LOWs at the same time makes a HUGE difference in visibility...especially when driving at speed on sketchy road because it lets you see... 1. What is coming up and 2. What your tires are on right now ... Forced induction is rape. REWARD EXCELLENCE!  Rate the quality of this post and help <i>Tycho</i> reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!
06-05-2002, 04:37 PM #10	
L300Boy Master Member  Join Date: Jul 2001 Location: Puyallup, WA Posts: 4,249 L300Boy's Photos 	 I would like to announce the introduction of the Hi-Ho hi/lo modification from L300Boy inc. As you probably have decided, \$20 is an outrageous amount of money for this modification. We offer several trim levels for under \$7 DOLLARS! Hi-Ho Classic: This is our classic version of the ever popular Hi-Lo beam modification. Enough to modify several vehicles with black or grey interior. \$6.98 http://www.tapemonster.com/master3.c...ta=Duct%20Tape Hi-Ho Special: The Hi-Ho Special is of the same quality of the Classic, but matches tan interiors. \$4.25 http://www.tapemonster.com/master3.c...ta=Duct%20Tape Hi-Ho Sport: The Hi-Ho Sport offers the quality of the Classic, but with the color Yellow. In addition to activating both high and low beams, it also gives your vehicle a sporty look and 5% performance increase*! \$4.25 http://www.tapemonster.com/master3.c...ta=Duct%20Tape REWARD EXCELLENCE!  Rate the quality of this post and help <i>L300Boy</i> reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!
06-05-2002, 05:21 PM #11	
wolfman Super Member  Join Date: Jun 2002 Location: Texas Posts: 12,066 wolfman's Photos 	 regards In regards to L300Boy's continued tirade...he obviously is a member of the primate school of car modification and repair. I imagine if he wanted clear valve covers for his L300 he'd just pop off the factories and stretch on some Saran Wrap (oh gee!!! it comes in colors too!!!) For the rest of you, I am working on a wiring diagram to attach to the next post. The less than \$20 est. is based on you not already having anything you'll need. The cost for cars with DRL's is a bit more because the wiring is somewhat more complicated. I already had everything needed on hand so my cost was zero....Stay tuned I'll get the (two) diagrams up ASAP. ... Old Saturns never die, people KILL them, so check your damn oil! "Unthinking respect for authority is the greatest enemy of truth." Albert Einstein REWARD EXCELLENCE!  Rate the quality of this post and help <i>wolfman</i> reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!



06-05-2002, 07:15 PM

#12

wolfman

Super Member

000000



Join Date: Jun 2002
Location: Texas
Posts: 12,066

wolfman's Photos

diagrams

I will attempt to attach both diagrams to this post. Here is a parts list for the modification
30 amp fog/driving lamp relay (2 needed for cars w/ DRL's)
Enough proper gauge wire to complete installation.

Diagram/mod works on the fact that Saturn Headlights always have positive (+) power going to them. When you turn on the switch you are supplying GND (-) to complete the circuit and turn them on. Modification uses the HIGH beam "ON" GND wire as signal voltage to a relay which in turn supplies LO beam "ON" GRD voltage to the LOW beam headlights direct from chassis ground while the high beams are on. When the high beams are turned off, the lows revert to their normal source of GND voltage. Diagram/Mod for cars with DRL's simply adds another relay/circuit to accomplish the same thing but only with the headlights on and NOT with the DRL's. This is the purpose of the additional relay and parking light connection for cars with DRL's. Modification supplies GROUND (NOT POSITIVE!!!) to the lights direct from chassis, only using high beam as a relay activator. As a result current load on exising hi beam wiring IS NOT increased.

The EASIEST way to obtain the parts you need is to go to Walmart and buy a "Fog Light/Driving light wiring kit" (\$10.00+/-) (Get two if doing a DRL car!) it will have the right relay and enough decent wire to do it. The relay itself does NOT need to be grounded.(NOTE: if you buy this kit immediately throw out the included wiring diagram that comes with it as it will only confuse you! This application is wired completely differently!) You can hook up to the headlight wiring without splicing or cutting by carefully removing the blue covers on the headlight plugs at the headlights and inserting the Modification's wires TIGHTLY alongside the factory wires. Then replace the covers.

DISCLAIMER!!!

NOTE:I HAVE DONE THIS MODIFICATION TO A 92' SL-2, a 95 SL-1, AND A 97' SL-2 SUCCESSFULLY. FOLLOW THE DIRECTIONS CAREFULLY AND REMEMBER YOUR SCREW UP IS NOT MY FAULT!!!!

The diagram size(s) are too big to attach I'll try to shrink them and post seperately!!!!

...
Old Saturns never die, people KILL them, so check your damn oil!
"Unthinking respect for authority is the greatest enemy of truth." Albert Einstein

REWARD EXCELLENCE!

Rate the quality of this post and help wolfman reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!



06-05-2002, 07:56 PM

#13

wolfman

Super Member

000000



Join Date: Jun 2002
Location: Texas
Posts: 12,066

wolfman's Photos

diagram 1

Sorry guys I've been trying to post the diagrams for better than an hour now and everytime I try the board has some other reason why it won't let me😞 I'VE HAD IT!!!!😞😞😞 If you want them let me know and I'll send alone the appropriate 1 you need via email.

...
Old Saturns never die, people KILL them, so check your damn oil!
"Unthinking respect for authority is the greatest enemy of truth." Albert Einstein

REWARD EXCELLENCE!

Rate the quality of this post and help wolfman reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!



06-05-2002, 08:11 PM

#14

wolfman

Super Member

000000



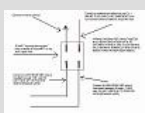
Join Date: Jun 2002
Location: Texas
Posts: 12,066

wolfman's Photos

diagram

For 91-95 without DRL's

Attached Thumbnails



...
Old Saturns never die, people KILL them, so check your damn oil!
"Unthinking respect for authority is the greatest enemy of truth." Albert Einstein

REWARD EXCELLENCE!

Rate the quality of this post and help wolfman reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!



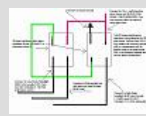
06-05-2002, 08:13 PM

#15

wolfmanSuper Member
★★★★★Join Date: Jun 2002
Location: Texas
Posts: 12,066[wolfman's Photos](#) **diagram 2**

For 96+ WITH DRL's

Attached Thumbnails



...

Old Saturns never die, people KILL them, so check your damn oil!
 "Unthinking respect for authority is the greatest enemy of truth." Albert Einstein

REWARD EXCELLENCE!

Rate the quality of this post and help *wolfman* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

06-05-2002, 09:44 PM

#16

David 93 SL2mMaster Member
★★★★Join Date: May 2000
Location: North America
Posts: 3,594[David 93 SL2m's Photos](#) 2004 VUE 2.2L
2007 ION-3 Sedan

Wolfman's diagrams of relays have the contacts for the coils on the right sides and the contacts for the switched device on the left sides.

Wolfman's correct about the current flow at the headlights. Current flows to the headlight bulbs and then to an OEM relay which then leads to a ground. The OEM relay is controlled by the headlight switch in the driver's area. So turning the lights on with the steering wheel switch allows current to flow across the coil of the OEM relay, which then switches "closed" - providing the ground and completing the circuit. I only looked at the diagram for Saturns without DRLs and it looks proper.

I did this headlight modification on my 1993 SL2 several years ago in a very similar manner. No sweat. I based my design on ideas from [Dan Stern's webpage](#). The only difference I did was route the new wire into the driver's area where I installed a switch so that I can enable/disable this mod as I wish.

By the same token we can do a similar thing with relays to add DRLs to a 1991 - 1995 SLx: let new relays provide a ground for the high beams. Then you can drive around with just the high beams on in broad daylight just like the newer Saturns do while leaving all the parking lights off.

When looking at diagrams such as wolfman's and Dan Stern's, trace the lines and pretend that these are pipes with water flowing (or not flowing) through them.

REWARD EXCELLENCE!

Rate the quality of this post and help *David 93 SL2m* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

06-07-2002, 04:13 PM

#17

Heartbeat - '95**SL2**Senior Member
★★★Join Date: Jan 2001
Location: Southern California
Posts: 1,324[Heartbeat - '95 SL2's Photos](#)

1995 SL2



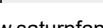
What wire gauge is recommended? Sounds like a great idea, even if you only encounter dark roads occasionally. Usually when it's high beam time, it's pitch black and the more light, the better. Thanks for the posts.

REWARD EXCELLENCE!

Rate the quality of this post and help *Heartbeat - '95 SL2* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

06-07-2002, 07:23 AM

#18

David 93 SL2mMaster Member
★★★★Join Date: May 2000
Location: North America
Posts: 3,594[David 93 SL2m's Photos](#) 2004 VUE 2.2L
2007 ION-3 Sedan

For wolfman's modification, common 18-gauge wire will be okay. If you want to build your own wire harness using directions similar to Dan Stern's, I'd recommend 12-gauge wire - especially if you are running 80 watt or 100 watt bulbs.

When drawing current from the battery, make sure that it is fused!!! An inline fuse holder is less than \$3. Cheap insurance.

REWARD EXCELLENCE!

Rate the quality of this post and help *David 93 SL2m* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

09-24-2003, 03:40 PM

#19

Shawn

Member

Join Date: May 2003

Location: Anacortes, WA

Posts: 81

Thank you Wolfman. This is a helpful mod that will really benefit those of us with early SLs that don't a have a good spot in the bumper to mount driving lights.

Can this be included in the How To Tips section?

REWARD EXCELLENCE!

Rate the quality of this post and help *Shawn* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

09-24-2003, 04:11 PM

#20

ProDarwin

Master Member

Join Date: Sep 2002

Location: Winston-Salem

Posts: 3,597

[ProDarwin's Photos](#)

Thanks. About to head to walmart to get parts.

...

-Travis

REWARD EXCELLENCE!

Rate the quality of this post and help *ProDarwin* reputation points. Click the reputation button near the bottom left corner of this message box. Thank you!

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6/6